

**HYUNDAI**  
POWER EQUIPMENT

**airseries**

**1/2" IMPACT WRENCH**

**HPT-IM12-1**

**ENGLISH USER MANUAL**

# **HYUNDAI**

POWER EQUIPMENT

LICENSED BY HYUNDAI CORPORATION, KOREA  
LICENCIÉ PAR LA CORPORATION HYUNDAI, CORÉE

PRINTSPEC: EN-HPT-IM12-1-0-2010v1  
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Thank you for purchasing a Hyundai Air Tool.

Please register your product in order for us to ensure your continuous satisfaction with our product.

This manual covers the safety, operation, and maintenance procedures for the HPT-IM12-1.

It is important that this manual be read and fully understood before operating the compressor. Failure to do so may cause serious injuries and/or equipment damage.

**TECHNICAL DATA**

<b>SQUARE DRIVE</b>	1/2"
<b>CAPACITY BOLT SIZE</b>	5/8" (16 mm)
<b>FREE SPEED</b>	7,000 RPM
<b>MAX TORQUE</b>	230ft/lb (31.8 kg-m)
<b>AVERAGE AIR CONSUMPTION</b>	4 CFM
<b>OPERATING PRESSURE</b>	90 PSI (6.3 bar)
<b>AIR INLET SIZE</b>	1/4"
<b>AIR HOSE</b>	3/8"
<b>WEIGHT</b>	5.4 Lbs (2.5 kg)
<b>A WEIGHTED SOUND PRESSURE LEVEL</b>	92.6 dB (A)
<b>SOUND POWER LEVEL</b>	103.6dB (A)
<b>VIBRATION IN THE HANDLE</b>	2.8m/s <sup>2</sup>

**IMPORTANT SAFETY RULES**

1. Only operate in a clean and safe working environment.
2. Do not wear watches, rings, bracelets, and/or loose clothing when using the wrench.
3. **WARNING!** Disconnect the wrench from air supply before changing accessories or servicing.
4. Replace any damaged or worn parts. Only use Hyundai authorized parts.
5. **WARNING!** Do not exceed the recommended air pressure of the wrench.

6. Make sure to keep the hose away from heat, oil, and sharp edges. Check the air hose for wear before each use and ensure that all connections are secure.
7. Only use impact sockets that are specifically designed for use with this impact wrench.
8. Wear approved eye/face, hand, and hearing protection to reduce the risk of injury.
9. Maintain correct balance and footing when operating the wrench.
10. Keep children and non-essential persons away from the working area.
11. Do not use the wrench for tasks that it is not designed to perform.
12. Do not use the wrench if damaged in any way or thought to be faulty.
13. Do not carry the wrench by the air hose.
14. Do not direct air from the air house at yourself or others.
15. When not in use, disconnect the wrench from the air supply and store it in a safe and dry location.

## **OPERATING INSTRUCTION DESCRIPTION**

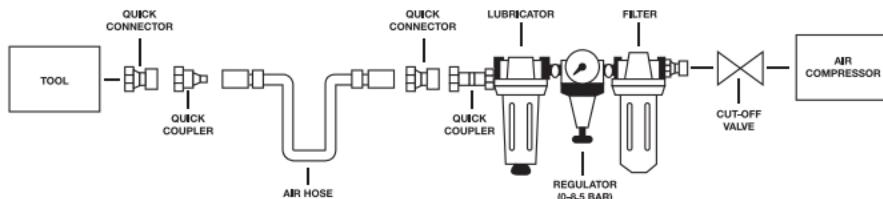
This 1/2" Impact Wrench is designed to install and remove nuts and bolts. The wrench is made of a die-cast aluminum body with a front exhaust, rubber scuff guards on the nose and back, and a built-in regulator to vary the speed and power of the wrench. It is ideal for changing tires, as well as general assembly, and other workshop applications.

### **Air Supply**

1. Ensure the tool's air valve (or trigger) is in the OFF position before connecting the wrench to the air supply.
2. The wrench requires 90 PSI of air pressure to operate. Do not exceed the specified air pressure to prevent damage and/or personal harm.
3. Drain the tank daily or after each use. Moisture in the air line will damage the wrench.

### **Lubrication**

An automatic in-line filter-regulator lubricator is recommended (Fig.), as it increases tool life and keeps the tool in good working order. The in-line lubricator should be regularly checked and filled with air tool oil. Proper adjustment of the in-line lubricator is performed by placing a sheet of paper next to the exhaust ports and holding the throttle open for approximately 30 seconds. The lubricator is properly set when a light stain of oil collects on the paper. Excessive amounts of oil should be avoided.



## Loading and Operation

1. Only use impact sockets that are specifically designed for use with impact wrench.
2. Connect the wrench to the air hose.
3. Place the socket over the subject nut and depress the trigger to operate the wrench.
4. To change direction, push the button at the top of the handle. Direction of R for reverse and F for forward.
5. The flow of air may be regulated by adjusting the flow valve at the base of the handle.
6. Ensure the air supply is clean and does not exceed 90 PSI. Too high an air pressure and unclean air will shorten the product life and may cause damage or personal injury.

***DO NOT use any additional force upon the wrench in order to remove a nut.***

***DO NOT allow wrench to run free for an extended period of time, as this will shorten its life.***

## Maintenance

***WARRANTY NOTICE:*** This tool must be serviced by an authorized Hyundai Service Dealer during its warranty period. Failure to do so will void the warranty. Disconnect wrench from the air supply before changing accessories, servicing or performing maintenance.

1. Lubricate the air wrench daily with a few drops of air tool oil dripped into the air inlet
2. Do not use worn or damaged sockets.
3. Loss of power or erratic action may be due to the following:
  - Excessive moisture or restriction in the air pipe. Incorrect size or type of hose connectors. To remedy this problem, check the air supply and follow instructions.
  - Grit or gum deposits in the wrench may also reduce performance. If your model has an air strainer, located in the area of the air inlet,

remove the strainer and clean it.

4. When not in use, disconnect from air supply, clean wrench and store in a safe, dry, childproof location.

**WARNING!** If any of the following symptoms appear during your use of the wrench, stop using the tool immediately, or serious personal injury could result. Disconnect tool from air supply before attempting repair or adjustment.

**WARRANTY NOTICE:** This tool must be serviced by an authorized Hyundai Service Dealer during its warranty period. Failure to do so will void the warranty.

## **TROUBLESHOOTING**

<b>PROBLEM</b>	<b>CAUSE</b>	<b>CORRECTION</b>
Tool runs at normal speed, but loses under load.	<ul style="list-style-type: none"><li>• Motor parts are worn.</li><li>• Cam clutch worn or sticking due to lack of lubricant.</li></ul>	<ul style="list-style-type: none"><li>• Lubricate the clutch housing.</li><li>• Check for excess clutch oil. Clutch cases need to be only half full. Overfilling can cause drag on high speed clutch parts. Typical oiled/lubricated wrench requires <math>\frac{1}{2}</math> ounce of oil.</li></ul> <p><b>GREASE LUBRICATED</b> NOTE: Heat usually indicates insufficient grease in chamber. Severe operating conditions may require more frequent lubrication.</p>

Tool runs slowly. Limited air flows from exhaust.	<ul style="list-style-type: none"><li>• Motor parts jammed with dirt particles</li><li>• Power regulator in closed position</li><li>• Air flow blocked by dirt.</li></ul>	<ul style="list-style-type: none"><li>• Check air inlet filter for blockage.</li><li>• Pour air tool lubricating oil into air inlet as per instructions.</li><li>• Operate tool in short bursts, quickly reversing rotation back and forth, where applicable.</li></ul>
Tools will not run. Air flows freely from exhaust.	<ul style="list-style-type: none"><li>• One or more motor vanes stuck due to material build up.</li></ul>	<ul style="list-style-type: none"><li>• Pour air tool lubricating tool into air inlet.</li><li>• Operate tool in short bursts, quickly reversing rotation back and forth, where applicable</li><li>• Disconnect air supply. Free motor by rotating drive shank manually, where applicable</li></ul>
Tool will not shut off	<ul style="list-style-type: none"><li>• 'O' rings throttle valve dislodged from seat inlet valve.</li></ul>	<ul style="list-style-type: none"><li>• Replace 'O' ring.</li></ul>